Executive Connect 2020

Breakout Summaries
Executive Connect 2020—Breakout Session Pre-Read

Evolution of Automotive Safety Using a Digital Twin
Creating a step function change in scalability and time to build and test safe, autonomous vehicles

Session Abstract
Senior leaders from Valeo and NI will discuss the approach Valeo took to turn data into an asset while helping innovate the market of autonomous vehicles. Participants will gain insights into data management approaches, including how to automatically acquire it, pre-processes it the car, load it to the cloud, post-process it, and finally use it for data-driven decisions and actions.

Discussion Topics
• How to approach the challenge of aging data
• How to combine virtual-world and real-world requirements
• How regional/global legislation will drive the needs of autonomous vehicles
• How technology changes can or will complicate things in the future

Expected Learnings and Takeaways
• Extend your professional network with additional senior leaders with whom you can collaborate
• Share experiences, best practices, and lessons learned by participating in a group discussion
• Gain ideas about current and future approaches leveraging data to reduce time to market
• Influence and steer investments from industry leaders like Valeo and NI

About Valeo
Valeo is an automotive supplier and partner to automakers worldwide. As a technology company, we design innovative solutions for smart mobility, with a particular focus on intuitive driving and reducing CO2 emissions.
Evolution of Automotive Safety Using a Digital Twin

Creating a step function change in scalability and time to build and test safe, autonomous vehicles

Key Discussion Topics

• A digital twin provides flexibility to continually adapt to regulatory changes and real-time adaptability to uptake data from live tests
• Develop a model that can take on new requirements, test changes, and inform fleets of autonomous vehicles with the new behavior
• The impact of COVID-19 on the autonomy timeline is uncertain. Vehicle purpose is the discerning factor. Service delivery is one potential new market

Requirements for Success

• Correlating road data and simulation will be key to constantly recreate the appropriate validation process
• Determine the right data to collect (Valeo has a three-step approach) and connect the source data with the outcomes of the model
• 5G and live over-the-air (OTA) updates mean an expansive test capability can ensure safety and reliability of the autonomy platform before they are released to the fleet

Next Steps

• Reach out for a personal discussion with jeffrey.phillips@ni.com
• Connect with Jeff Phillips and Leoš Dvořák on LinkedIn
• Watch for virtual events focused on transportation topics in Q4 that your leaders and engineers can attend
• Visit our website for info on test system flexibility for automotive applications
• Follow us on LinkedIn

For full session recap, please see slide notes